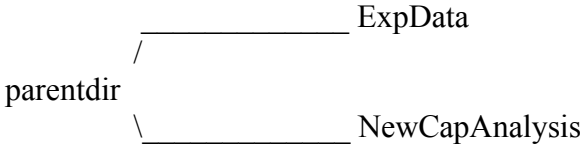
Protocol for using cap_analysis3

Created by BJMay, 02/23/07

Configuration

1. Install the NewCapAnalysis folder in the parent directory that contains your ExpData folder



2. Add the NewCapAnalysis folder to the MATLAB path

Updating

If you're using old format data files, you'll need to update them by running the MATLAB function UpdateAveragerFiles. This process is not needed for files collected after 02/23/07.

CALL AS: UpdateAveragerFiles(volt,speaker,directory)

Where volt is the voltage output at 0 dB atten for the speaker amplifier, speaker is the name of the speaker system (CROWN or ED1), and directory is the path to data files that are being updated.

EXAMPLE: You run SetAmp and set the crown to 0.25 volts at 8 kHz with 20 dB atten. Update the files as UpdateAveragerFiles(2.5,'Crown',directory). If you make the present working directory the folder with the data files, call as UpdateAveragerFiles(2.5,'Crown'). Note that the voltage has been increased to 2.5 because there was 20 dB atten during the SetAmp procedure.

WHAT IT DOES: UpdateAveragerFiles will work through the data folder copying current calibration and EP files to a backup folder. Modified versions of the calibration and EP files containing speaker IDs and voltages settings will be placed in the active directory.

Analysis

New format CAP and ABR data files should be analyzed with the MATLAB function cap_analysis3. This program will read the speaker system and voltage settings in calibration and EP files to correct threshold measures for differences in amplifier voltage settings.